

Amendments to the Claims:

This listing of claims replaces and supersedes all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (Cancelled).

8. (Currently Amended) A proton conductor gas sensor comprising:

~~having~~ a sensor body having a membrane electrode assembly (MEA) comprising an electrolyte membrane, a sensing electrode, and a counter electrode, and a water reservoir positioned at one side of the sensor body and supplying water vapor to the membrane electrode assembly; ~~said sensor comprising:~~

a cap having an opening for introducing ambient atmosphere towards said membrane electrode assembly from an opposite side of the membrane electrode assembly to the water reservoir; and

a thin nonporous, metal plate between said cap and said membrane electrode assembly, having a diffusion control hole connected to the opening of the cap and having a smaller diameter than that of the opening of the cap.

9.(Cancelled)

10. (New) The proton conductor gas sensor of claim 8, wherein said diffusion control hole is made mechanically by a punching process.